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## Weather Information for Tribune

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## Weather Information for Tribune

### Abstract

Summary of 2019 weather for research conducted at the Tribune field location.

### Keywords

Tribune weather, 2019 weather, southwest Kansas weather report

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## Weather Information for Tribune

*D. Bond and J. Slattery*

In 2019, annual precipitation of 19.59 in. was recorded, which is 1.69 in. above normal. Only five months had above-normal precipitation. July (3.84 in.) was the wettest month. The largest single amount of precipitation was 2.00 in. on July 21. April, the driest month, only recorded 0.20 in. of precipitation.

Snowfall for the year totaled 38.1 in. (15.7 in. above normal); January, February, March, April, October, November and December had 11.3, 12.0, 5.2, 0.1, 5.0, 3.5, and 1.0 in., respectively. There was a total of 35 days of snow cover, which is nine days above normal. The longest consecutive period of snow cover, 14 days, occurred February 23 through March 8.

Record-high temperatures were recorded on 2 days: February 4 (73°F) and September 3 (103°F). Historical record-high temperatures were tied on 2 days: August 20 (100°F) and 21 (102°F). Record-low temperatures were recorded on 5 days: June 10 (38°F); October 11 (14°F) and 31 (2°F); and November 1 (8°F) and 12 (0°F). A historical record-low temperature was tied on October 12 (19°F). July was the warmest month with a mean temperature of 76.3°F. The hottest day of the year (105°F) occurred on July 20. The coldest day of the year (-6°F) occurred on February 8. February was the coldest month with a mean temperature of 25.4°F. Of special note, the average minimum temperature for October (29.7°F) broke the historic record (31.1°F) set in 1995.

The mean air temperature was below normal for 7 months. September had the greatest departure above normal (6.1°F), and February had the greatest departure below normal (-8.1°F). Temperatures were 100°F or higher on 13 days, which is 2 days above normal. Temperatures were 90°F or higher on 64 days, which is 1 day above normal. The latest spring freeze was May 22, which is 16 days later than normal; the earliest fall freeze fell on October 10, which is 3 days later than normal. This produced a frost-free period of 141 days, which is 13 days less than the normal of 154 days.

Open-pan evaporation from April through September totaled 63.72 in., which is 7.68 in. below normal. Wind speed for this period averaged 4.0 mph, which is 1.3 mph less than normal.

The 2019 weather information for Tribune is summarized in Table 1.

**Table 1. Climatic data, Southwest Research-Extension Center, Tribune, KS**

Month	Monthly average temperatures											
	Precipitation		2019		Normal		2019 extreme		Wind		Evaporation	
	2019	Normal	Max	Min	Max	Min	Max	Min	2019	Normal	2019	Normal
	----- in. -----		----- °F -----						----- mph -----		----- in. -----	
January	0.96	0.49	44.7	18.6	44.0	16.2	63	4	---	---	---	---
February	1.16	0.52	39.2	11.6	47.5	19.4	73	-6	---	---	---	---
March	2.00	1.22	49.3	22.8	56.3	26.8	79	-4	---	---	---	---
April	0.20	1.45	70.2	35.0	65.7	34.9	87	19	4.2	6.0	8.24	8.27
May	3.73	2.38	68.4	41.8	75.1	46.4	93	30	3.8	5.6	7.03	11.75
June	2.60	2.94	84.7	52.9	85.7	56.6	100	38	4.0	5.2	12.44	14.04
July	3.84	2.85	92.4	60.1	91.8	61.7	105	52	3.7	5.2	13.69	15.58
August	2.29	2.33	91.2	60.4	89.4	60.4	102	52	3.3	4.7	11.06	12.16
September	1.15	1.18	88.4	56.0	81.5	50.6	103	47	5.0	5.0	11.26	9.60
October	0.60	1.49	62.7	29.7	68.9	37.1	92	2	3.9*	4.5*	5.48*	6.09*
November	0.34	0.55	53.0	21.4	54.9	25.7	74	0	---	---	---	---
December	0.72	0.50	48.5	19.5	44.7	17.0	67	8	---	---	---	---
Annual	19.59	17.90	66.2	36.0	67.1	37.7	105	-6	4.0	5.3	63.72	71.40

Normal latest freeze (32°F) in spring: May 6. In 2019: May 22.

Normal earliest freeze (32°F) in fall: October 7. In 2019: October 10.

Normal frost-free (>32°F) period: 154 days. In 2019: 141 days.

Normal for precipitation and temperature is 30-year average (1981–2010) from National Weather Service.

Normal for latest freeze, earliest freeze, wind, and evaporation is 30-year average (1981–2010) from Tribune weather data.

\* Normal for October wind and evaporation is 10-year average (2001–2010) from Tribune weather data; October not included in annual totals.